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WPI Acc No: 2003-546359/200352

XRAM Acc No: C03-148604

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Manufacture of outer wall material involves extrusion-molding cement slurry, dividing components, dispersing inorganic coloring matter on components surface, forming pattern, applying in-line sealer, curing and applying clearance coating

Patent Assignee: SUMIKIN FRC KK (SUMI-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003094419	A	20030403	JP 2001291961	A	20010925	200352 B

Priority Applications (No Type Date): JP 2001291961 A 20010925

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2003094419	A		5	B28B-011/04	

Abstract (Basic): JP 2003094419 A

NOVELTY - Cement slurry is extrusion molded and then divided. Inorganic coloring agents are dispersed on surface of divided components. A pattern is formed by performing press-die pushing to decorated molding. In-line sealer is applied to surface of pressed molding. The molding is then cured in autoclave. Clearance coating material is applied to surface of cured component to produce outer wall material.

DETAILED DESCRIPTION - A cement slurry is extrusion-molded, and the extrusion-molded component is divided. Inorganic coloring matters of same or different types are dispersed on the surface of the divided extrusion-molded component to decorate the molding. A pattern is then formed by performing a press-die pushing to the decorated molding. An in-line sealer is applied to the surface of pressed molding. The molding is then cured in an autoclave. A clearance coating material is subsequently applied to the surface of cured component to produce an outer wall material.

An INDEPENDENT CLAIM is included for outer wall material, which has an extrusion-molded cement material layer, an inorganic coloring powder layer, a pattern, an in-line sealer layer and a clearance coating layer.

USE - For manufacturing outer wall material.

ADVANTAGE - The manufactured outer wall material has excellent weather resistance, contamination resistance and design property. The wall material is inexpensive and maintenance free.

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Technology Focus:

TECHNOLOGY FOCUS - POLYMERS - Preferred Compositions: The in-line sealer is a heat-bridge type resin based emulsion.

Preferred Method: A coloring process for staining a portion, is performed between curing process and painting process.

INORGANIC CHEMISTRY - Preferred Materials: The inorganic coloring matter is brick waste, natural mineral, inorganic pigment or colored natural mineral. The clearance coating material is (in)organic group clearance coating material.

Title Terms: MANUFACTURE; OUTER; WALL; MATERIAL; EXTRUDE; MOULD; CEMENT; SLURRY; DIVIDE; COMPONENT; DISPERSE; INORGANIC; COLOUR; MATTER; COMPONENT; SURFACE; FORMING; PATTERN; APPLY; LINE; SEAL; CURE; APPLY; CLEARANCE; COATING

Derwent Class: L02; P42; P64; Q45

International Patent Class (Main): B28B-011/04

International Patent Class (Additional): B05D-005/00; B05D-007/00;

B28B-001/30; B28B-003/02; B28B-003/20; C04B-041/71; E04F-013/14

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): L02-A03

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